

Fig. 1

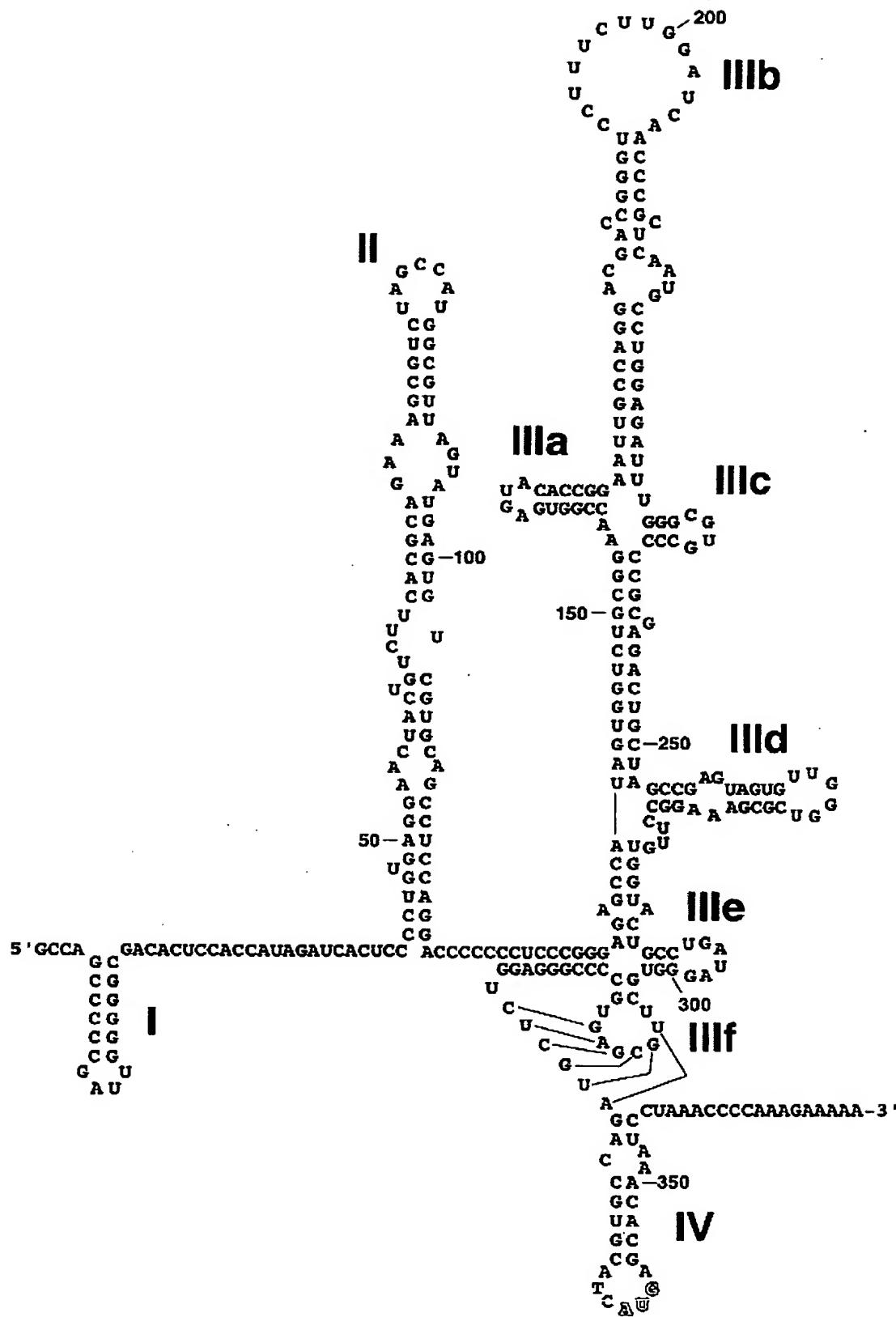
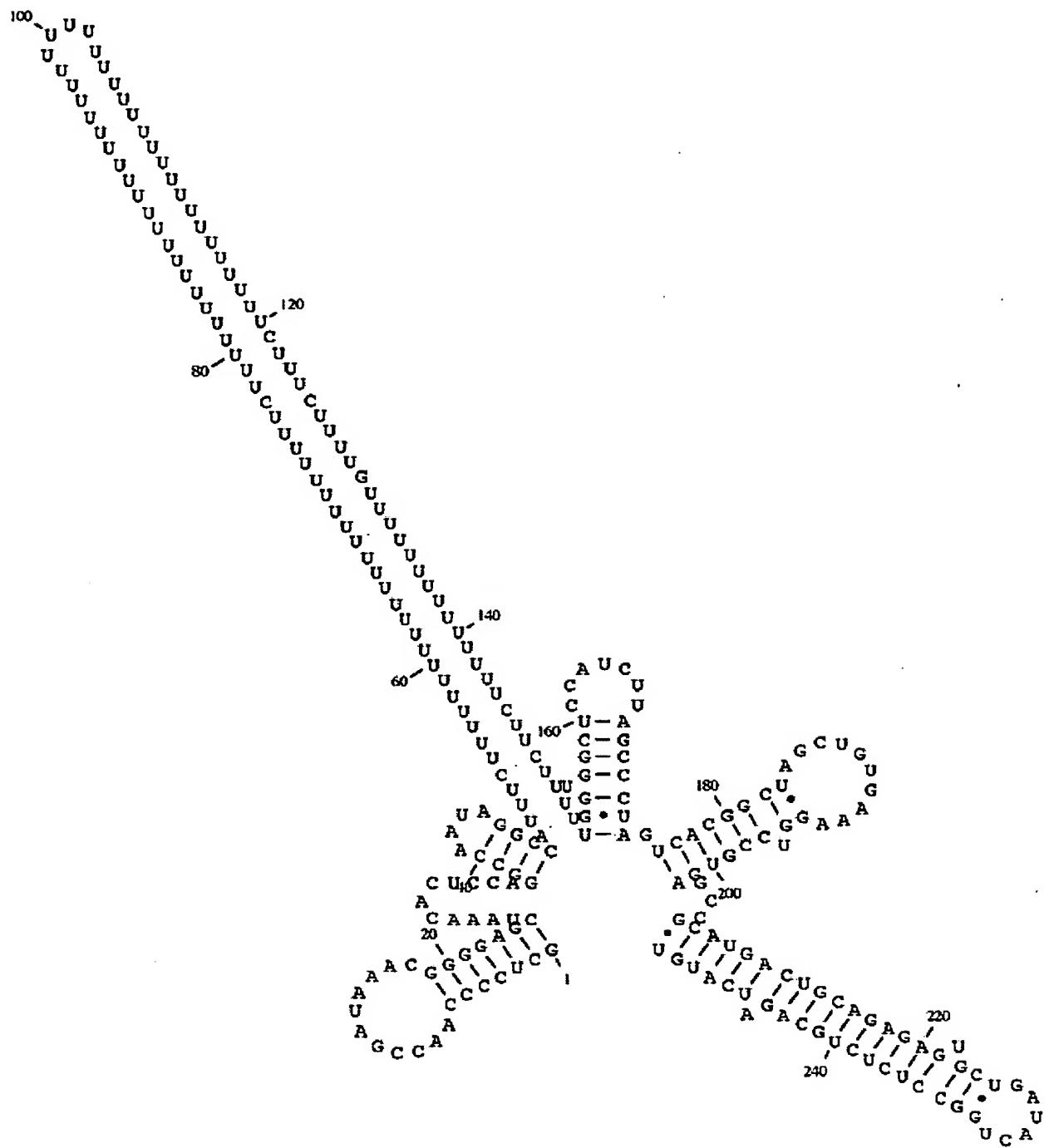


Fig. 2



## Fig. 3A

HCV-1

GCCAGCCCCCTGATGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACACTGTCTTCACGCA  
 GAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTGAGCCTCCAGGACCCCCCTCCCGGGAGAGCCA  
 TAGTGGTCTGCCGAACCGGTGAGTACACCGGAATTGCCAGGACGACCGGGTCCTTCTGGATCAACCCG  
 CTCAATGCCTGGAGATTGGCGTGCCTGGCAAGACTGCTAGCCGAGTAGTGTGGTCCGAAAGGCC  
 TTGTGGTACTGCCTGATAGGGTCTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACG  
 AATCCTAACCTCAAAAAAAAACAAACGTAACACCAACCGTCCACAGGACGTCAAGTCCC GG GTG  
 GCGGTCAAGATCGTTGGTGGAGTTACTTGTGCGCGCAGGGGCCCTAGATTGGGTGTGCGCGCAGCAG  
 AAAGACTTCC (SEQ ID No.1)

HCV-BK

CGATTGGGGCGACACTCCACCATAGATCACTCCCCTGTGAGGAACACTGTCTTCACGCAAGAAAGCGTC  
 TAGCCATGGCGTTAGTATGAGTGTGAGCCTCCAGGACCCCCCTCCCGGGAGAGCCATAGTGGTCT  
 GCGGAACCGGTGAGTACACCGGAATTGCCAGGACGACCGGGTCCTTCTGGATCAACCCGCTCAATGCC  
 TGGAGATTGGCGTGCCTGGCGAGACTGCTAGCCGAGTAGTGTGGTCCGAAAGGCCCTGTGGTAC  
 TGCCTGATAGGGTCTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAA  
 CCTCAAAGAAAACCAACGTAACACCAACCGCCGCCACAGGACGTCAAGTCCC GG GTGGTCAAG  
 TCGTTGGTGGAGTTACCTGTTGCCCGCAGGGGCCCAAGGTTGGGTGTGCGCGCAGGAAGACTTC  
 CGAGCGGTG (SEQ ID No.2)

HCV-J

TTGGGGCGACACTCCACCATAGATCACTCCCCTGTGAGGAACACTGTCTTCACGCAAGAAAGCGTCTAG  
 CCATGGCGTTAGTATGAGTGTGAGCCTCCAGGACCCCCCTCCCGGGAGAGCCATAGTGGTCTGCG  
 GAACCGGTGAGTACACCGGAATTGCCAGGACGACCGGGTCCTTCTGGATCAACCCGCTCAATGCC  
 AGATTGGCGTGCCTGGCGAGACTGCTAGCCGAGTAGTGTGGTCCGAAAGGCCCTGTGGTACTGC  
 CTGATAGGGTCTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCATCATGAGCACAAATCCTAAACCT  
 CAAAGAAAACCAACGTAACACCAACCGCCGCCACAGGACGTTAAGTCCC GG GTGGTCAAGATCG  
 TTGGTGGAGTTACCTGTTGCCCGCAGGGGCCCAAGGTTGGGTGTGCGCGCAGTAGGAAGACTTC  
 CGGGTCGCAA (SEQ ID No.3)

**Fig. 3B****R6**

GGGCCAGCCCCGATTGGGGCGACACTCCACCATAGATCACTCCCTGTGAGGAACTA  
 CAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTGTCGCAGCCTCCAGGACCCCCCTCCC  
 GGGAGAGC  
 CATAGGGTCTCGGAACCGGTGAGTACACCGGAATTGCCAGGACGACGGGTC  
 CTTCTGGATCAACC  
 CGCTCAATGCCTGGAGATTGGCGTGCCCCCGCGAGACTGCTAGCCGAGTAGTGTGG  
 TCGCGAAAGG  
 CCTTGTGGTACTGCCTGATAGGGTGC  
 TAGTGCAGTGCCCCGGGAGGTCTCGTAGACCGTG  
 CATCATGAGCA  
 CAAATCCCAAACCCAAAGAAAAACCAAACGTAACACCAACCGTCCC  
 ACAGGACGTCAAGTTCC  
 GGGTGGTCAGATCGTTGGAGTTACCTGTTGCCGCG  
 CAGGGGCC  
 CAGGTGGTGTGCGCG  
 AGCT  
 AGGAAGACTT (SEQ ID No.4)

**R24**

ACCCGCCCCCTAATAGGGCGACACTCCGCCATGAATCACTCCCTGTGAGGAAC  
 TA  
 CACTGTCTTACGCGCA  
 GAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTGTCGTACAGCCTCCAGGCCCC  
 CCTCC  
 CCCCCCTCC  
 GGGAGAGCCA  
 TAGTGGTCTCGGAACCGGTGAGTACACCGGAATTGCC  
 GGGAGACCGGG  
 TC  
 CTTCTTGATA  
 AAACCCG  
 CTCTATGCCCGGCCATTGGCGTGCCCCCGCAAGACTGCTAGCC  
 GAGTAGCGTTGG  
 GTGCGAAAGGCC  
 TTGTGGTACTGCCTGATAGGGTGC  
 TAGTGCAGTGCCCCGGGAGGTCTCGTAGACCGTG  
 ACCATGAGCACA  
 AATCCTAACCTCAAAGAAAAACCCAAAGAAACACTAACCGTCCC  
 ACAAGACGTTAAGTTCC  
 GGGCG  
 GC  
 GGGCCAGATCGTTGGCGGAGTACTTGTTGCCGCG  
 TAGGGGCC  
 CAGATTGGGTGTGCGCACAGCAAG  
 GAAGACTTCG (SEQ ID No.5)

**S14J**

ACCCGCCCCCTAATAGGGCGACACTCCGCCATGAATCACTCCCTGTGAGGAAC  
 TA  
 CACTGTCTTACGCGCA  
 GAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTGTCGTACAGCCTCCAGGCCCC  
 CCTCC  
 CCCCCCTCC  
 GGGAGAGCCA  
 TAGTGGTCTCGGAACCGGTGAGTACACCGGAATTGCC  
 GGGAGACTGGG  
 TC  
 CTTCTTGATA  
 AAACCCG  
 CTCTATGCCCGGCCATTGGCGTGCCCCCGCAAGACTGCTAGCC  
 GAGTAGCGTTGG  
 GTGCGAAAGGCC  
 TTGTGGTACTGCCTGATAGGGTGC  
 TAGTGCAGTGCCCCGGGAGGTCTCGTAGACCGTG  
 ACCATGAGCACA  
 AATCCTAACCTCAAAGAAAAACCCACAGAAACACTAACCGTCCC  
 ACAAGACGTTAAGTTCC  
 GGGCG  
 GC  
 GGGCCAGATCGTTGGCGGAGTACTTGTTGCCGCG  
 TAGGGGCC  
 CAGATTGGGTGTGCGCACAGCAAG  
 GAAGACTTCG (SEQ ID No.6)

**Fig. 3C****HCJ6**

ACCCGCCCTAATAGGGCGACACTCCGCCATGAACCACACTCCCCTGTGAGGAACACTGTCTCACGCAG  
 AAAGCGTCTAGCCATGGCGTTAGTATGAGTGTGTCGTACAGCCTCCAGGCCCCCCCCCTCCGGGAGAGCCAT  
 AGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCGGAAAGACTGGGTCTTCTGGATAAACCCAC  
 TCTATGCCCGGTCAATTGGCGTGCCCCCGCAAGACTGCTAGCCGAGTAGCGTTGGGTGCGAAAGGCCT  
 TGTGGTACTGCCTGATAGGGTGTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACAA  
 ATCCTAACCTCAAAGAAAAACCAAAAGAAACACCAACCGTCGCCACAAGACGTTAAGTTCCGGCG  
 CGGCCAGATCGTGGCGAGTACTTGTGCCCGCAGGGGCCAGGTTGGGTGCGCGACAGAACAG  
 AAGACTTCGG (SEQ ID No.7)

**JFH1**

ACCTGCCCTAATAGGGCGACACTCCGCCATGAATCACTCCCCTGTGAGGAACACTGTCTCACGCAG  
 AAAGCGCCTAGCCATGGCGTTAGTATGAGTGTGTCGTACAGCCTCCAGGCCCCCCCCCTCCGGGAGAGCCAT  
 AGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCGGAAAGACTGGGTCTTCTGGATAAACCCAC  
 TCTATGCCCGGCCATTGGCGTGCCCCCGCAAGACTGCTAGCCGAGTAGCGTTGGGTGCGAAAGGCCT  
 TGTGGTACTGCCTGATAGGGCGTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACAA  
 ATCCTAACCTCAAAGAAAAACCAAAAGAAACACCAACCGTCGCCAGAAGACGTTAAGTTCCGGCG  
 CGGCCAGATCGTGGCGAGTACTTGTGCCCGCAGGGGCCAGGTTGGGTGCGCACGACAAG  
 AAAACTTCGG (SEQ ID No.8)

**JCH1**

ACCCGCCCTAATAGGGCGACACTCCGCCATGAATCACTCCCCTGTGAGGAACACTGTCTCACGCA  
 GAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTGTCGTACAGCCTCCAGGCCCCCCCCCTCCGGGAGAGCCA  
 TAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCGGAAAGACTGGGTCTTCTGGATAAACCCA  
 CTCTATGCCCGGCCATTGGCGTGCCCCCGCAAGACTGCTAGCCGAGTAGCGTTGGGTGCGAAAGGCC  
 TTGTGGTACTGCCTGATAGGGCGTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACA  
 ATCCTAACCTCAAAGAAAAACCCACAGAAACACTAACCGTCGCCACAAGACGTTAAGTTCCGGCG  
 CGGCCAGATCGTGGCGAGTACTTGTGCCCGCAGGGGCCCTAGATTGGGTGCGCACGACAAG  
 GAAGACTTCG (SEQ ID No.9)

**Fig. 3D****JCH3**

ACCCGCCCTAATAGGGCGACACTCCGCCATGAATCACTCCCCTGTGAGGAACACTGTCTCACGCAG  
AAAGCGTCTAGCCATGGCGTTAGTATGAGTGTGTCGTACAGCCTCCAGGCCCCCCCCCTCCCGGGAGAGCCAT  
AGTGGTCTGCGAACCGGTGAGTACACCGGAATTGCCGGAAGACTGGGTCTTCTTGATAAACCCAC  
TCTATGCCCGGCCATTGGCGTCCCCCGCAAGACCGTAGCCGAGTAGCGTTGGGTGCGAAAGGCC  
TGTGGTACTGCCTGATAGGGTGTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACAA  
ATCCTAACCTCAAAGACAAACAAAAGAAACACCAAGCCGTCGCCACAAGACGTTAGGTTCCGGCG  
CGGCCAGATCGTGGCGGAGTATACTGTTGCCGCGAGGGCCCCAGGTTGGGTGCGCGACAAGG  
AAGACTTCGG (SEQ ID No.10)

**HCJ8**

GCCC GCCCCTGATGGGGCGACACTCCGCCATGAATCACTCCCCTGTGAGGAACACTGTCTCACGCA  
GAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTGTCGTACAGCCTCCAGGCCCCCCCCCTCCGGGAGAGCCA  
TAGTGGTCTGCGAACCGGTGAGTACACCGGAATTACCGGAAAGACTGGGTCTTCTTGATAAACCCAC  
CTCTATGTCCGGTCATTGGCACGCCCGCAAGACTGCTAGCCGAGTAGCGTTGGGTGCGAAAGGCC  
TTGTGGTACTGCCTGATAGGGTGTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCATCATGAGCACA  
AATCCTAACCTCAAAGAAAACAAAAGAAACACAAACCGCCGCCACAGGACGTTAAGTCCGGGTG  
GCGGTCAAGATCGTGGCGGAGTTACTTGCTGCCGCGAGGGCCCCAGGTTGGGTGCGCGACAAG  
GAAGACTTCT (SEQ ID No.11)

Fig. 4A

Hcv-1.nc	1	--GCCAGCCCCCTGATGGGGCGACACTCCACCATGNAATCACTCCCCCTGTGAGGAACCTAC	58
Hcv-bk.nc	1	--CGATTGGGGGACACTCCACCATGNAATCACTCCCCCTGTGAGGAACCTAC	49
Hcv-j.nc	1	--TGGGGGGGACACTCCACCATGNAATCACTCCCCCTGTGAGGAACCTAC	46
R6.nc	1	GGCCAGCCCCGATGGGGGACACTCCACCATGNAATCACTCCCCCTGTGAGGAACCTAC	60
R24.nc	1	--ACCCGGCCCTTAATGGGGGACACTCCACCATGNAATCACTCCCCCTGTGAGGAACCTAC	58
S14j.nc	1	--ACCCGGCCCTTAATGGGGGACACTCCACCATGNAATCACTCCCCCTGTGAGGAACCTAC	58
Hcj6.nc	1	ACCGGGCCCTTAATGGGGGACACTCCACCATGNAATCACTCCCCCTGTGAGGAACCTAC	60
Jfh1.nc	1	--ACCGGGCCCTTAATGGGGGACACTCCACCATGNAATCACTCCCCCTGTGAGGAACCTAC	57
Jch1.nc	1	--ACCCGGCCCTTAATGGGGGACACTCCACCATGNAATCACTCCCCCTGTGAGGAACCTAC	57
Jch3.nc	1	--ACCCGGCCCTTAATGGGGGACACTCCACCATGNAATCACTCCCCCTGTGAGGAACCTAC	57
Hcj8.nc	1	--GCCGGCCCCCTGATGGGGGACACTCCACCATGNAATCACTCCCCCTGTGAGGAACCTAC	58
Hcv-1.nc	59	TGTCTTCACGGAGAAAGCGCTTAAGCCATGGCGTTAGTATGAGTCGTGCTGCAGCCTCCAGG	118
Hcv-bk.nc	50	TGTCTTCACGGAGAAAGCGCTTAAGCCATGGCGTTAGTATGAGTCGTGCTGCAGCCTCCAGG	109
Hcv-j.nc	47	TGTCTTCACGGAGAAAGCGCTTAAGCCATGGCGTTAGTATGAGTCGTGCTGCAGCCTCCAGG	106
R6.nc	61	TGTCTTCACGGAGAAAGCGCTTAAGCCATGGCGTTAGTATGAGTCGTGCTGCAGCCTCCAGG	120
R24.nc	59	TGTCTTCACGGAGAAAGCGCTTAAGCCATGGCGTTAGTATGAGTCGTGCTGCAGCCTCCAGG	118
S14j.nc	59	TGTCTTCACGGAGAAAGCGCTTAAGCCATGGCGTTAGTATGAGTCGTGCTGCAGCCTCCAGG	118
Hcj6.nc	61	CTTGACGGAGAAAGCGCTTAAGCCATGGCGTTAGTATGAGTCGTGCTGCAGCCTCCAGG	120
Jfh1.nc	58	TGTCTTCACGGAGAAAGCGCTTAAGCCATGGCGTTAGTATGAGTCGTGCTGCAGCCTCCAGG	117
Jch1.nc	58	TGTCTTCACGGAGAAAGCGCTTAAGCCATGGCGTTAGTATGAGTCGTGCTGCAGCCTCCAGG	117
Jch3.nc	58	TGTCTTCACGGAGAAAGCGCTTAAGCCATGGCGTTAGTATGAGTCGTGCTGCAGCCTCCAGG	117
Hcj8.nc	59	TGTCTTCACGGAGAAAGCGCTTAAGCCATGGCGTTAGTATGAGTCGTGCTGCAGCCTCCAGG	118
Hcv-1.nc	119	ACCCCCCTCCCCGGGAGGGCATAGTGGCTGGGAACCCGGAAATTGCC	178
Hcv-bk.nc	110	ACCCCCCTCCCCGGGAGGGCATAGTGGCTGGGAACCCGGAAATTGCC	169
Hcv-j.nc	107	ACCCCCCTCCCCGGGAGGGCATAGTGGCTGGGAACCCGGAAATTGCC	166
R6.nc	121	ACCCCCCTCCCCGGGAGGGCATAGTGGCTGGGAACCCGGAAATTGCC	180
R24.nc	119	ACCCCCCTCCCCGGGAGGGCATAGTGGCTGGGAACCCGGAAATTGCC	178
S14j.nc	119	CCCCCCCCTCCCCGGGAGGGCATAGTGGCTGGGAACCCGGAAATTGCC	178
Hcj6.nc	121	CCCCCCCCTCCCCGGGAGGGCATAGTGGCTGGGAACCCGGAAATTGCC	180
Jfh1.nc	118	CCCCCCCCTCCCCGGGAGGGCATAGTGGCTGGGAACCCGGAAATTGCC	177
Jch1.nc	118	CCCCCCCCTCCCCGGGAGGGCATAGTGGCTGGGAACCCGGAAATTGCC	177
Jch3.nc	118	CCCCCCCCTCCCCGGGAGGGCATAGTGGCTGGGAACCCGGAAATTGCC	177
Hcj8.nc	119	CCCCCCCCTCCCCGGGAGGGCATAGTGGCTGGGAACCCGGAAATTGCC	178

Fig. 4B

Hcv-1.nc	179	AGGACGACGGGTCTTCTGGATGACCCCGCTCAATTGGCCTGGATTTGGGGTCCCC	238
Hcv-bk.nc	170	AGGACGACGGGTCTTCTGGATGACCCCGCTCAATTGGCCTGGATTTGGGGTCCCC	229
Hcv-j.nc	167	AGGACGACGGGTCTTCTGGATGACCCCGCTCAATTGGCCTGGATTTGGGGTCCCC	226
R6.nc	181	AGGACGACGGGTCTTCTGGATGACCCCGCTCAATTGGCCTGGATTTGGGGTCCCC	240
R24.nc	179	GCGAGAGACTGGGTCTTCTGGATGACCCCGCTCAATTGGCCTGGATTTGGGGTCCCC	238
S14j.nc	179	GCGAGAGACTGGGTCTTCTGGATGACCCCGCTCAATTGGCCTGGATTTGGGGTCCCC	238
Hcj6.nc	181	AAGACTGGGTCTGGATGACCCCGCTCAATTGGCCTGGATTTGGGGTCCCC	240
Jfh1.nc	178	GCGAGAGACTGGGTCTTCTGGATGACCCCGCTCAATTGGCCTGGATTTGGGGTCCCC	237
Jch1.nc	178	GCGAGAGACTGGGTCTTCTGGATGACCCCGCTCAATTGGCCTGGATTTGGGGTCCCC	237
Jch3.nc	178	GCGAGAGACTGGGTCTTCTGGATGACCCCGCTCAATTGGCCTGGATTTGGGGTCCCC	237
Hcj8.nc	179	GCGAGAGACTGGGTCTTCTGGATGACCCCGCTCAATTGGCCTGGATTTGGGGTCCCC	238
Hcv-1.nc	239	CCGCCAGACTGCTAGCCGAGTAGCCGACTAGTCCTGGCTACTGCCTGATA	298
Hcv-bk.nc	230	CCGCCAGACTGCTAGCCGACTAGTCCTGGCTACTGCCTGATA	289
Hcv-j.nc	227	CCGCCAGACTGCTAGCCGACTAGTCCTGGCTACTGCCTGATA	286
R6.nc	241	CCGCCAGACTGCTAGCCGACTAGTCCTGGCTACTGCCTGATA	300
R24.nc	239	CCGCCAGACTGCTAGCCGACTAGTCCTGGCTACTGCCTGATA	298
S14j.nc	239	CCGCCAGACTGCTAGCCGACTAGTCCTGGCTACTGCCTGATA	298
Hcj6.nc	241	CAAGACTGCTAGCCGACTAGTCCTGGCTACTGCCTGATA	300
Jfh1.nc	238	CCGCCAGACTGCTAGCCGACTAGTCCTGGCTACTGCCTGATA	297
Jch1.nc	238	CCGCCAGACTGCTAGCCGACTAGTCCTGGCTACTGCCTGATA	297
Jch3.nc	238	CCGCCAGACTGCTAGCCGACTAGTCCTGGCTACTGCCTGATA	297
Hcj8.nc	239	CCGCCAGACTGCTAGCCGACTAGTCCTGGCTACTGCCTGATA	298
Hcv-1.nc	299	CGGTGCTTGGGAGTCCCAGGGTCTCGTAGACCCGGTCACTTGAGGAAGAAATCCCAA	358
Hcv-bk.nc	290	CGGTGCTTGGGAGTCCCAGGGTCTCGTAGACCCGGTCACTTGAGGAAGAAATCCCAA	349
Hcv-j.nc	287	CGGTGCTTGGGAGTCCCAGGGTCTCGTAGACCCGGTCACTTGAGGAAGAAATCCCAA	346
R6.nc	301	CGGTGCTTGGGAGTCCCAGGGTCTCGTAGACCCGGTCACTTGAGGAAGAAATCCCAA	360
R24.nc	299	CGGTGCTTGGGAGTCCCAGGGTCTCGTAGACCCGGTCACTTGAGGAAGAAATCCCAA	358
S14j.nc	299	CGGTGCTTGGGAGTCCCAGGGTCTCGTAGACCCGGTCACTTGAGGAAGAAATCCCAA	358
Hcj6.nc	301	TGGTGGGAGTCCCAGGGTCTCGTAGACCCGGTCACTTGAGGAAGAAATCCCAA	360
Jfh1.nc	298	GGGTGCTTGGGAGTCCCAGGGTCTCGTAGACCCGGTCACTTGAGGAAGAAATCCCAA	357
Jch1.nc	298	GGGTGCTTGGGAGTCCCAGGGTCTCGTAGACCCGGTCACTTGAGGAAGAAATCCCAA	357
Jch3.nc	298	GGGTGCTTGGGAGTCCCAGGGTCTCGTAGACCCGGTCACTTGAGGAAGAAATCCCAA	358
Hcj8.nc	299	GGGTGCTTGGGAGTCCCAGGGTCTCGTAGACCCGGTCACTTGAGGAAGAAATCCCAA	358

Fig. 4C

Hcv-1..nc	359	ACCTCAAAACAAACGTAACACCAACCGTGGCCACAGGACGTCAGTTCCGGG	418
Hcv-bk..nc	350	ACCTCAAGAAAACGTAACACCAACCGTGGCCACAGGACGTCAGTTCCGGG	409
Hcv-j..nc	347	ACCTCAAGAAAACGTAACACCAACCGTGGCCACAGGACGTCAGTTCCGGG	406
R6..nc	361	ACCCCCAAGAAAACGTAACACCAACCGTGGCCACAGGACGTCAGTTCCGGG	420
R24..nc	359	ACCTCAAGAAAACGTAACACCAACCGTGGCCACAGGACGTCAGTTCCGGG	418
S14j..nc	359	ACCTCAAGAAAACGTAACACCAACGAAACACTAACCGTGGCCACAGGACGTCAGTTCCGGG	418
Hcj6..nc	361	TCAAAGAAAACCCAACCAACGAAACACTAACCGTGGCCACAGGACGTCAGTTCCGGG	420
Jfh1..nc	358	ACCTCAAGAAAACGTAACACCAACGAAACAGAAACACTAACCGTGGCCACAGGACGTCAGTTCCGGG	417
Jch1..nc	358	ACCTCAAGAAAACGTAACACCAACGAAACACTAACCGTGGCCACAGGACGTCAGTTCCGGG	417
Jch3..nc	358	ACCTCAAGAAAACGAAACACCAACGAAACACTAACCGTGGCCACAGGACGTCAGTTCCGGG	417
Hcj8..nc	359	ACCTCAAGAAAACGAAACACCAACGAAACACTAACCGTGGCCACAGGACGTCAGTTCCGGG	418
Hcv-1..nc	419	TGGGGCTTAGATCGTTGGCTGGAGTTACCTGTGGAGTTACCTGTGGAGTTGGGTGT	478
Hcv-bk..nc	410	CGGTGGCTAGATCGTTGGCTGGAGTTACCTGTGGAGTTGGGTGT	478
Hcv-j..nc	407	CGGTGGCTAGATCGTTGGCTGGAGTTACCTGTGGAGTTGGGTGT	469
R6..nc	421	TGGGGCTAGATCGTTGGCTGGAGTTACCTGTGGAGTTGGGTGT	466
R24..nc	419	CGGGGGCAGATCGTTGGCTGGAGTTACCTGTGGAGTTGGGTGT	480
S14j..nc	419	CGGGGGCAGATCGTTGGCTGGAGTTACCTGTGGAGTTGGGTGT	478
Hcj6..nc	421	CGGGGGCAGATCGTTGGCTGGAGTTACCTGTGGAGTTGGGTGT	480
Jfh1..nc	418	CGGGGGCAGATCGTTGGCTGGAGTTACCTGTGGAGTTGGGTGT	477
Jch1..nc	418	CGGGGGCAGATCGTTGGCTGGAGTTACCTGTGGAGTTGGGTGT	477
Jch3..nc	418	CGGGGGCAGATCGTTGGCTGGAGTTACCTGTGGAGTTGGGTGT	477
Hcj8..nc	419	CGGGGGCAGATCGTTGGCTGGAGTTACCTGTGGAGTTGGGTGT	478
Hcv-1..nc	479	GCGCGGACGAAAGACTTC-----	500
Hcv-bk..nc	470	GCGCGGCGACTAGGAAGACTTCGAGGGGTGCAA-----	500
Hcv-j..nc	467	GCGCGGCGACTAGGAAGACTTCGAGGGGTGCAA-----	500
R6..nc	481	GCGCGGCGACTAGGAAGACTTC-----	500
R24..nc	479	GCGCGGACGAAAGACTTC-----	500
S14j..nc	479	GCGCGGACGAAAGACTTC-----	500
Hcj6..nc	481	GCGCGGACGAAAGACTTCG-----	500
Jfh1..nc	478	GCGCGGACGAAAGACTTCG-----	500
Jch1..nc	478	GCGCGGCGACGAAAGACTTCG-----	500
Jch3..nc	478	GCGCGGCGACGAAAGACTTCG-----	500
Hcj8..nc	479	GCGCGGCGACGAAAGACTTCG-----	500

**Fig. 5A**

p H77J6S

GCCTGTCTCATGCCGGCCCCGCTGGTTCTGGTTGCCTACTCCTGCTCGCTGCAGGGTAGGCATCTA  
 CCTCCCTCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCTCTTAAGCCATTCCCTGTTTTTTTT  
 TTTTTTTTTTTTTCTTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTT  
 AATGGTGGCTCCATCTAGCCCTAGTCACGGCTAGCTGTGAAAGGTCCGTGAGCCGATGACTGCAGAGA  
 GTGCTGATACTGGCCTCTGCAGATCATGT (SEQ ID No.12)

R6

GTCCAGCTGGTCGTGGCTGGTTACAGCGGGGAGACATATATCACAGCCTGTCGTGCCGACCCCGC  
 TGGTTCATGTTGCGCTACTCCTACTTTCACTAGGGTAGGCATCTACCTGCTCCCAACCGATAAACGG  
 GGAGCTAAACACTCCAGGCCAATAGGCCATTCTTTTTTTTTTTTTCTTCTTCTTCTTCTTCTTCTTCTT  
 TTTTTTTTTTTTTTTTTTTCTTCTTCTTGTGTTTTTTTTTTCTTCTTCTTGGTGGCT  
 CCATCTTAGCCCTAGTCACGGCTAGCTGTGAAAGGTCCGTGAGCCGATGACTGCAGAGAGTGCTGATAC  
 TGGCCTCTGCAGATCATGT (SEQ ID No.13)

R24L

TGGGCGGTGAAGACCAAGCTCAAACACTCCATTGCCGAAGCGCCCTGGATTTATCCAGCTGGT  
 TCACTGTCGGCGCCGGCGGGGGCGACATTATCACAGCGTCCGCGCCGACCCCGCTTATTACTCCT  
 TGGCCTACTCCTACTTTGTAGGGTAGGCCTTCTACTCCCCGCTCGTAGAGCGGCACACATTAG  
 CTACACTCCATACTGTCCTTTTTGTGTTTTTTTTTTTTTTTTTTTTTTTTTTCTTCTTCTT  
 TTTTTTTTTTTGTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTT  
 ATCTTAGCCCTAGTCACGGCTAGCTGTGAAAGGTCCGTGAGCCGATGACTGCAGAGATTGCCGTAACG  
 GTATCTCTGCAGATCATGT (SEQ ID No.14)

R24S

CCTGGATTATCCAGCTGGTCACTGTCGGCGCCGGCGGGGGCGACATTATCACAGCGTCCGCGTGCC  
 CGACCCCGCTTATTACTCCTGGCCTACTCCTACTTTGTAGGGTAGGCCTTCTACTCCCCGCTC  
 GGTAGAGCGGCACACATTAGCTACACTCCATAGCTAACTGTCCTTTTTTTTTTTGTTCTTCTT  
 CCTTCTCATTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTT  
 GCTGTGAAAGGTCCGTGAGCCGATGACTGCAGAGATTGCCGTAACGGTATCTCTGCAGATCATGT  
 (SEQ ID No.15)

## Fig. 5B

HCJ6CH

TTTATCCAGTTGGTTACCGTCGGCGCCGGCGGGGGGCGACATTATCACAGCGTGTGCGGTGCCGACCC  
 CGCTTATTACTCCTAGCCTACTCCTACTTTCGTAGGGTAGGCCTCTTTACTCCCCGCTCGGTAGA  
 GCGGCACACATTAGCTACACTCCATAGCTAACTGTTCTTTTTTTTTTTTTTTTTTTTTTTTTTT  
 TTTTTTTTTTTTTTTTTTTTTTTTTTTTTCTTCCTCCTTCTACCTCTTTACTCT  
 TTCCTGGTGGCTCATCTAGCCCTAGTCACGGCTAGCTGTGAAAGGTCCGTGAGCCGATGACTGCAGA  
 GAGTGCCGTA (SEQ ID No.16)

JFH1

GGACTTATCCAGTTGGTTACCGTCGGCGCCGGCGGGGGGCGACATTTACAGCGTGTGCGGTGCCG  
 CCCCGCTCATTACTCTCGGCCTACTCCTACTTTCTGTAGGGTAGGCCTCTCCTACTCCCCGCTCGGT  
 AGAGCGGCACACACTAGGTACACTCCATAGCTAACTGTTCTTTTTTTTTTTTTTTTTTTTT  
 TTTTTTTTTTTCTTTTTTTTTCCCTCTTCTCCCTCTCATCTTATTCTACTTTCTTCTT  
 GGTGGCTCCATCTAGCCCTAGTCACGGCTAGCTGTGAAAGGTCCGTGAGCCGATGACTGCAGAGAGTG  
 CCGTAACTGGTCTCTGCAGATCATGT (SEQ ID No.17)

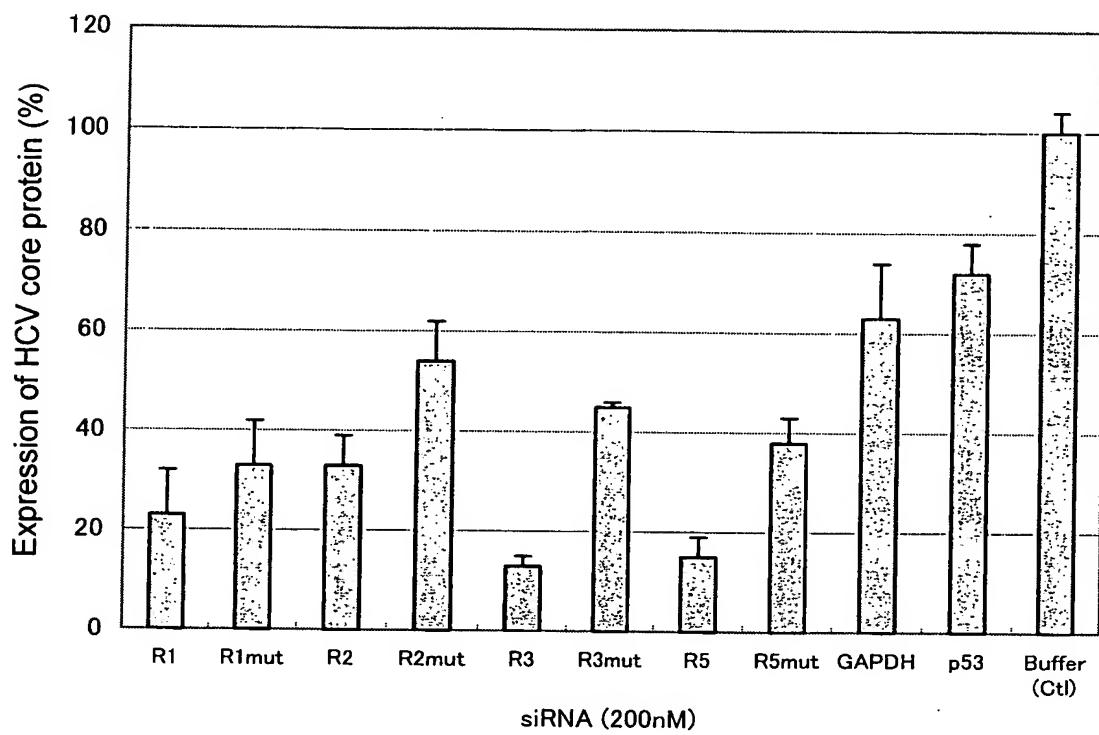
JCH1

GGATTGTCCAGTTGGTTACCGTCGGCGCCGGCGGGGGGCGACATTATCACAGCGTGTGCGGTGCCG  
 CCCCGCCTATTACTCCTAGCCTACTCCTACTTTCTGTAGGGTAGGCCTCTCCTACTCCCCGCTCGAT  
 AGAGCGGCACACATTAGCTACACTCCATAGCTAACTGTTCTTTTTTTTTTTTTTTTTTT  
 TTTTTTTCTTTTTTTTTCCCTCTTCTCCCTCTCATCTTATTCTACTTTCTTCTGGTG  
 GCTCCATCTAGCCCTGGTCACGGCTAGCTGTGAAAGGTCCGTGAGCCGATGACTGCAGAGAGTGCCGT  
 AACTGGTCTCTGCAGATCATGT (SEQ ID No.18)

2b\_AB030907

TAGATTATCCGGGTGGTTACCGTGGCGCCGGCGGGGGGCGACATCTTCACAGCGTGTGCGCATGCCG  
 ACCCCGCTATTACTCCTTGCCACTCCTACTTAGCGTAGGAGTAGGCATCTTTACTCCCCGCTCGG  
 TAGAGCGGCAAACCTAGCTACACTCCATAGCTAGTTCTTTTTTTTTTTTTTTTTGTTTT  
 TTTTTTTCTCTTTCCGTATTTTTTTCCCTCTTCTGGCTCCATCTAGCCCTAGTC  
 ACGGCTAGCTGTGAAAGGTCCGTGAGCCGATGACTGCAGAGAGTGCCGTA  
 ACTGGTCTCTGCAGATC ATGT (SEQ ID No.19)

Fig. 6



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Fig. 7

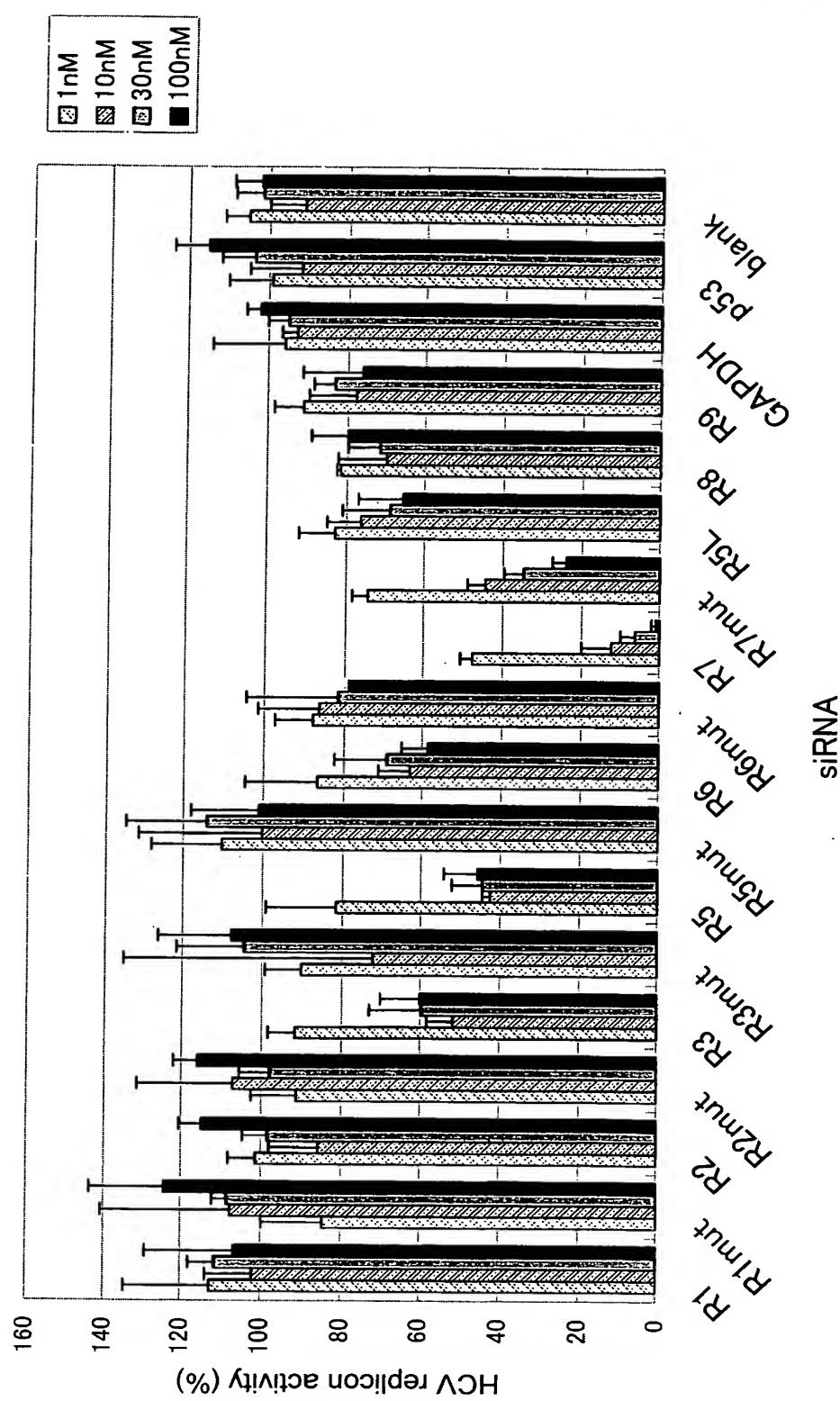


Fig. 8

BEST AVAILABLE COPY

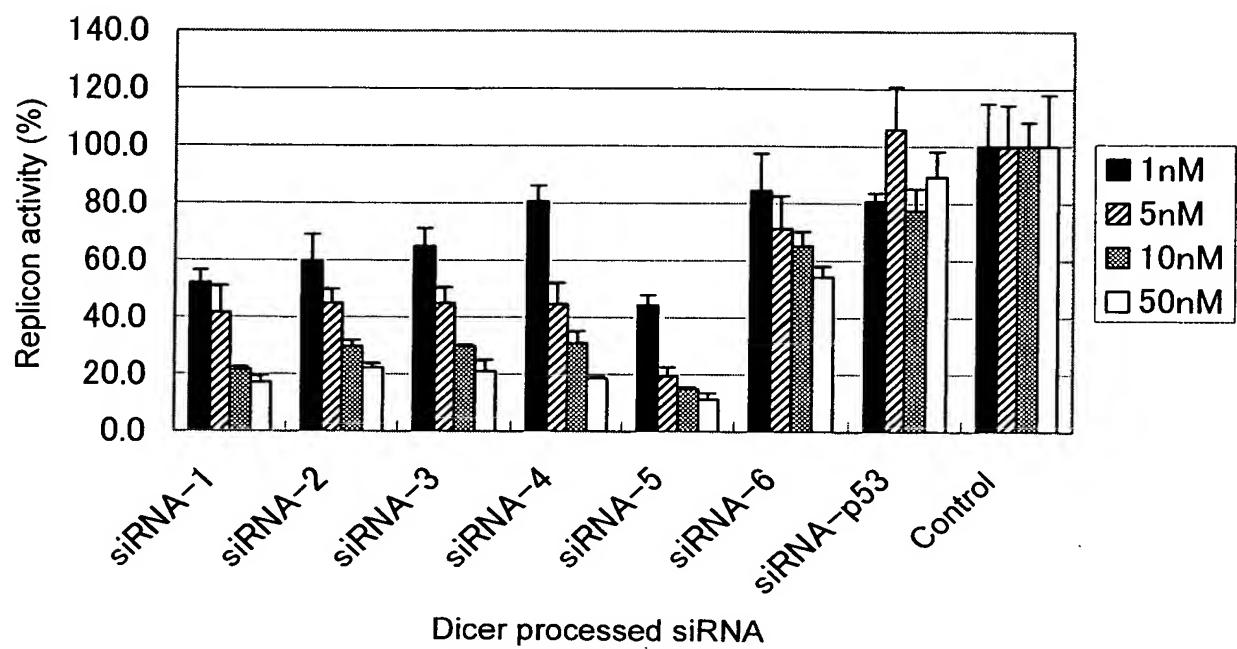


Fig. 9

